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APPLICATION N	Ю.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/767,176		01/22/2001	Yasuyuki Murakami		1997
26021	7590	07/13/2004		EXAMINER	
HOGAN	& HART	TSON L.L.P.	NALVEN, A	NALVEN, ANDREW L	
500 S. GI SUITE 19	RAND AV 900	ENUE	ART UNIT	PAPER NUMBER	
		A 90071-2611	DATE MAILED: 07/13/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary Office Action Summary Application No. 9/9767.176 MURAKAMI, YASUYUKI Andrew L Nalven 2:34 Art University Andrew L Nalven 2:34 ASPORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MAILING DATE of THIS COMMUNICATION. - Elecisions of time may be available under the provisions of 3/CR1 :138(s). In no error, however, may analy be simply fleed after 83 in Month IS for the nalling acted 2 flat communication. - In No seried for reply is specified above, the maximum statutory prefet of with apply and will express 3X (8) MONTH(S) first from the mailing state of this to provision and 3/CR1 :138(s). In no error, however, may analy be simply fleed after 5/18 in Month IS for the nalling control or provision and suprison to become AMPONDEN; 93 to 5, 5 (133). - In No seried for reply is specifed above, the maximum statutory prefet of will apply and will express 3X (8) MONTHS from the mailing state of this communication. - In No seried for reply is specifed above, the maximum statutory prefet of will apply and will express 3X (8) MONTHS from the mailing state of this communication. - In No seried parent term adjustment. Sea 37 CR1 1704(b). The maximum statutory prefet of the communication, even if through fleet, analy reduce any secure and series and parent term adjustment. Sea 37 CR1 1704(b). This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-10 Is/are pending in the application. 4a) Of the above claim(s) is/are allowed. 6) Claim(s) 1-10 Is/are rejected. 7) Claim(s) is/are allowed. 8) Claim(s) 1-10 Is/are rejected. 10) The drawing(s) filed on 22 January 2001 is/are: s) accepted or b) objected to by the Examiner. Application Papers 9) The specification is objected to by the Examiner. 10) The order or declaration is objected to by the Examiner. Note	_1	*	
## Examiner ## Andrew L Nahven ## 2134 - The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Examiners of time may be available under the provisions of 37 CFR 1.736(s). In no event, however, may a regly be limited from the cover should be available under the provisions of 37 CFR 1.736(s). In no event, however, may a regly be limited that in the common in the best hand the provision of 37 CFR 1.736(s). In no event, however, may a regly be limited that in the provision of the provisions of 37 CFR 1.736(s). In no event, however, may a regly be limited that in the provision of the prov		Application No.	Applicant(s)
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DETAILED ACTION

- 1. Claims 1-10 are pending.
- 2. Information disclosure statements submitted 22 January 2001 and 9 February 2004 have been received and considered. Applicant's submission of Japanese patent documents only included English translations of the abstracts. Accordingly, only the translated abstracts have been considered.

Claim Rejections - 35 USC § 102

- 1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:
 - (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-10 are rejected under 35 U.S.C. 102(e) as being anticipated by Iwamura et al US Patent No 5,966,449. Iwamura discloses a method for communicating between a group of entities a text encrypted using an encryption key intrinsic to the group of entities.
- 3. With regards to claims 1, 3 and 9-10, Iwamura teaches the dividing of identification information of one entity into a plurality of blocks to obtain divided identification information (Iwamura, column 9 lines 27-30 and 54-57, column 9 lines 9-

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11, "Kij"), the generating of secret keys of the one entity by using the respective divided identification information (Iwamura, column 9 lines 54-57 and column 8 lines 53-54), extracting components corresponding to other entity as a communicating party from the generated secret keys of the one entity (Iwamura, column 10 lines 5-14), and generating a common key by performing composition of the extracted components after converting the extracted components to increase the number of bits thereof (Iwamura, column 10 lines 5-14, column 8 lines 8-11, "function f").

- 4. With regards to claims 2, 4 and 7, Iwamura teaches a shift composition used in performing composition of the extracted components after converting the extracted components to increase the number of bits thereof (Iwamura, column 10 lines 57-65).
- 5. With regards to claim 5, Iwamura teaches all that is described above and further teaches the encrypting of plaintext into ciphertext using the generated common key (Iwamura, column 8 lines 13-23).
- 6. With regards to claims 6 and 8, Iwamura teaches the sending of secret keys generated using respective divided identification information obtained by dividing identification information of each entity into a plurality of blocks to each of the first and second entities from a plurality of key generating agencies (Iwamura, column 12 lines 24-42), the first entity generating a first common key by extracting components corresponding to the second entity as a destination of the ciphertext from the respective secrets keys of the first entity sent from the respective key generating agencies and performing composition of the extracted components after converting the extracted components to increase the number of bits thereof (Iwamura, column 12 lines 43-45),

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the first entity encrypting a plaintext into a ciphertext by using the generated first common key and transmitting the ciphertext to the second entity (Iwamura, column 12 lines 45-47), the second entity generating a second common key identical with the first common key by extracting components corresponding to the first entity from the respective secret keys of the second entity sent from the respective key generating agencies and performing composition of the extracted components after converting the extracted components to increase the number of bits thereof (Iwamura, column 12 lines 65-67, lines 40-42), and the second entity decrypting the transmitted ciphertext into plaintext by using the generated second common key (Iwamura, column 12 lines 65-67).

Conclusion

- 7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 8. Nakai US Patent No. 4, 760,600 discloses a cipher system.
- 9. Tanaka US Patent No. 5,251,258 discloses a key distribution system for distributing a cipher key between two subsystems by one-way communication.
- 10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew L Nalven whose telephone number is 703 305
 8407. The examiner can normally be reached on Monday Thursday 8-6, Alternate Fridays.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory Morse can be reached on 703 308 4789. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Andrew Malven

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100